

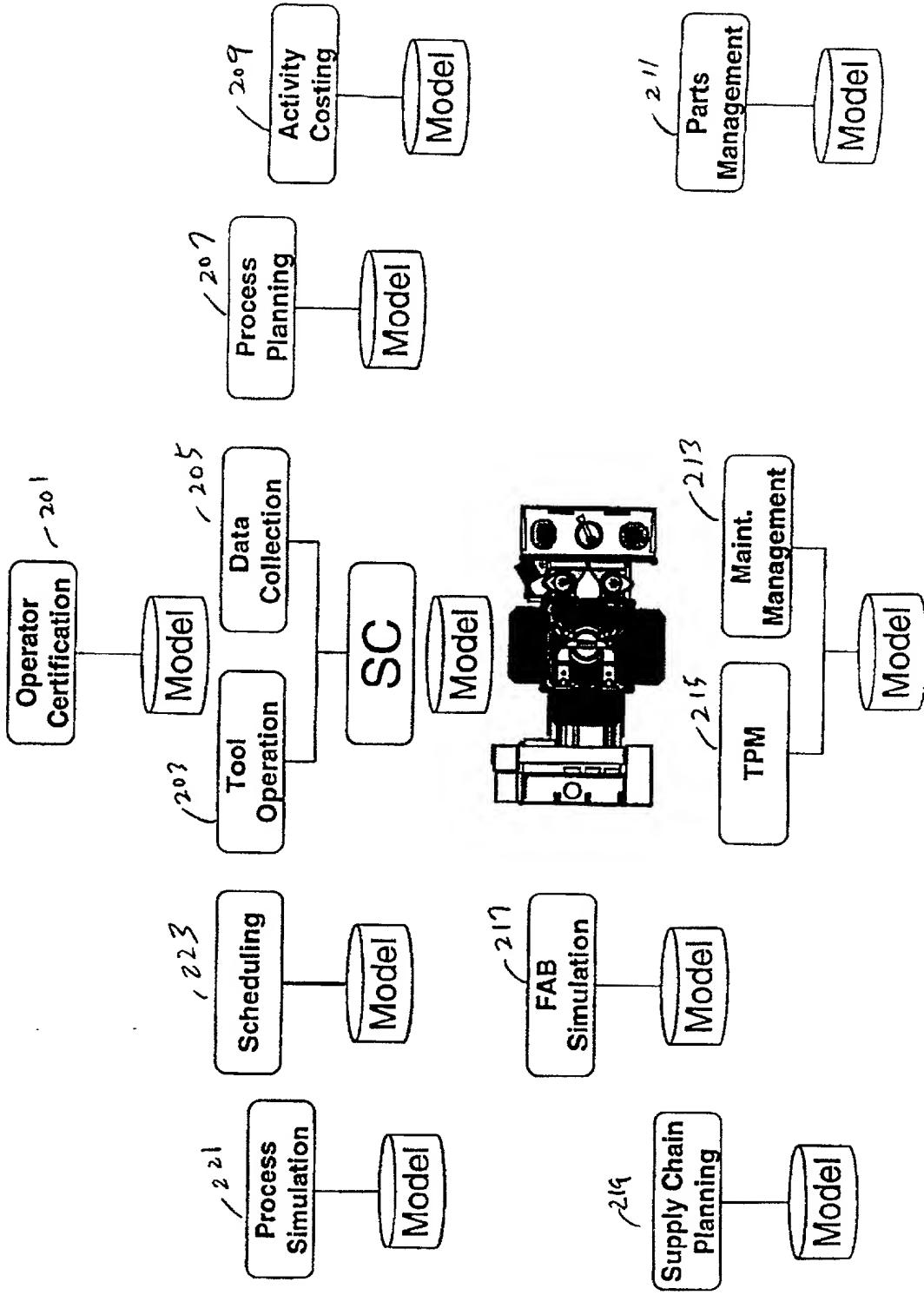
(Prior Art)

FIG. 1

CONTROLLER/SOFTWARE APPLICATIONS

(PRIOR ART)

Fig. 2



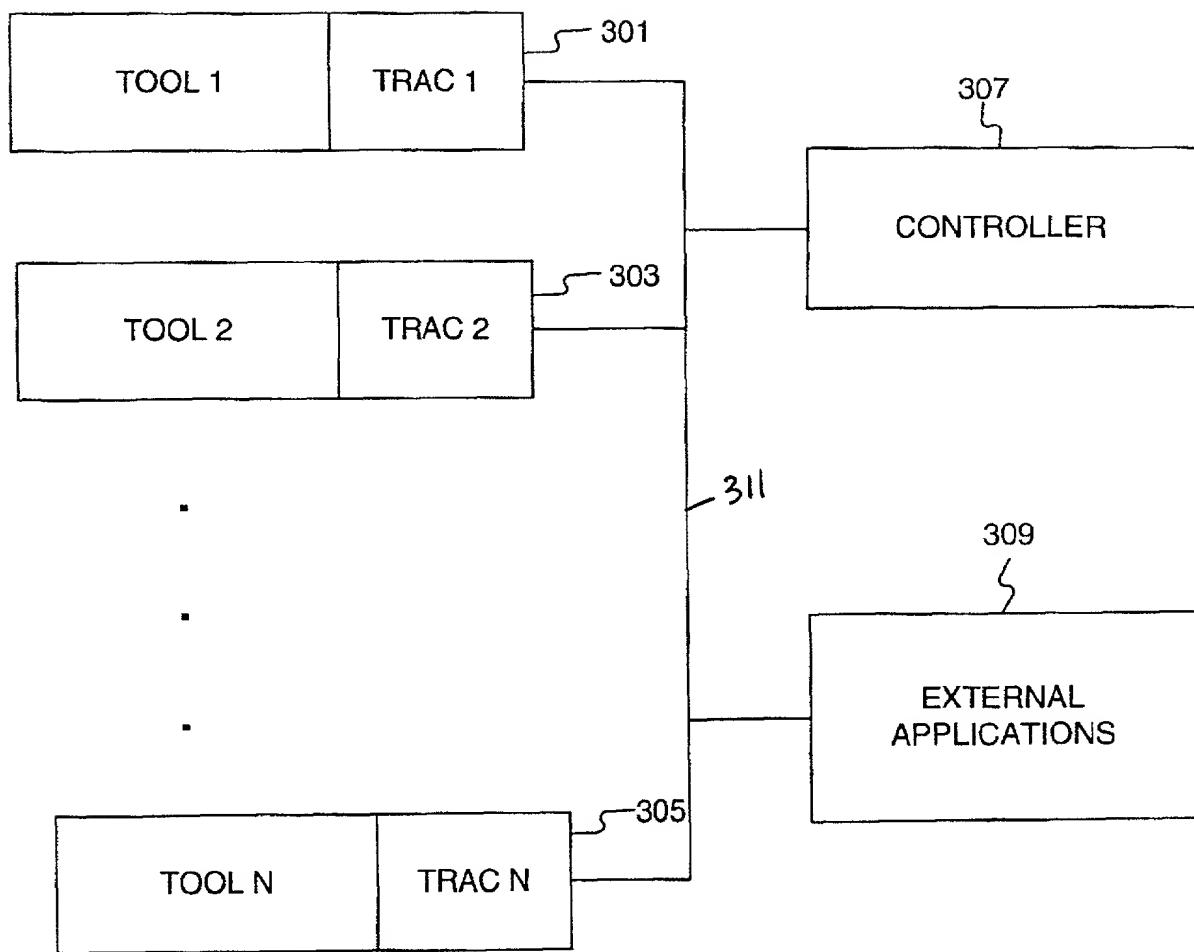


FIG. 3

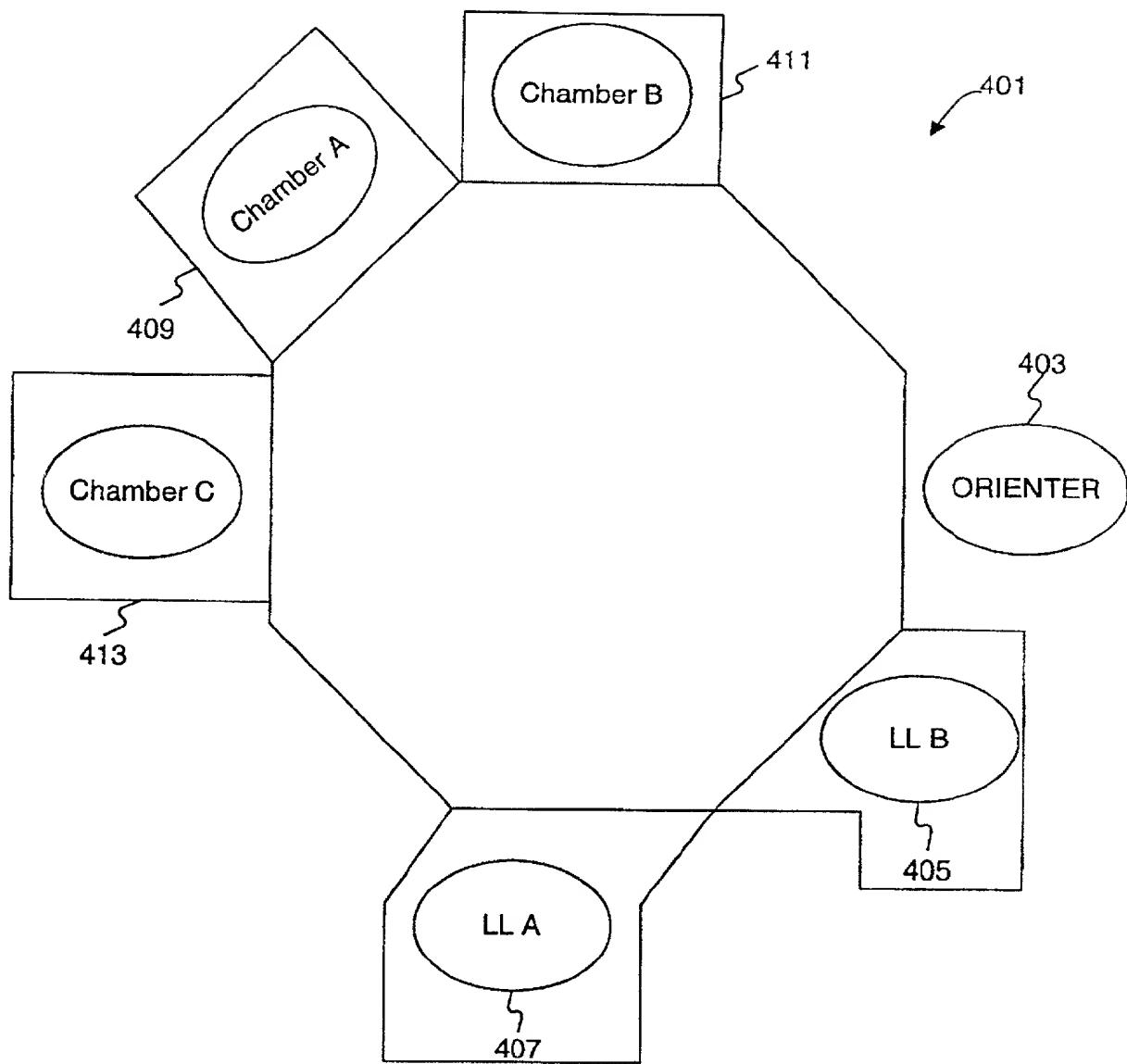


FIG. 4

501

502

503

504

505

		Chamber C	Chamber B	Chamber A	Tool
State					
Basic		✓	✓	✓	✓
Tool Service					
Production		✓			
Material Handling		✓			
Quals					
Particles		✓	✓	✓	✓
Manufacturing Dep			✓	✓	✓
Engineering Dep			✓	✓	✓
Process Services					
T	Process X	✓			
T	Process Y	✓			
T	Process Z	✓			
C	Process A		✓	✓	
C	Process B		✓		
C	Process C		✓		✓

FIG. 5

FIG. 6

10

QoS - Cpk		Tool			Chamber C
Process Services					Chamber B
	Process X				Chamber A
	Process Y				
	Process Z				
	Process A		2.1	2.16	
	Process B		3.03	3.21	
	Process C				4.16

FIG. 7

10

QoS - Proc. Time		Tool			Chamber C
Process Services					Chamber B
	Process X				Chamber A
	Process Y				
	Process Z				
	Process A		42	43	
	Process B		36	41	
	Process C				130

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QoS - CPK		Tool 1	Tool 2	Tool 3	Tool 4
Process Services					
	Process X	2.35	2.1	2.16	X
	Process Y	3.41	3.03	3.21	X
	Process Z	X	4.19	4.21	4.16

FIG. 8

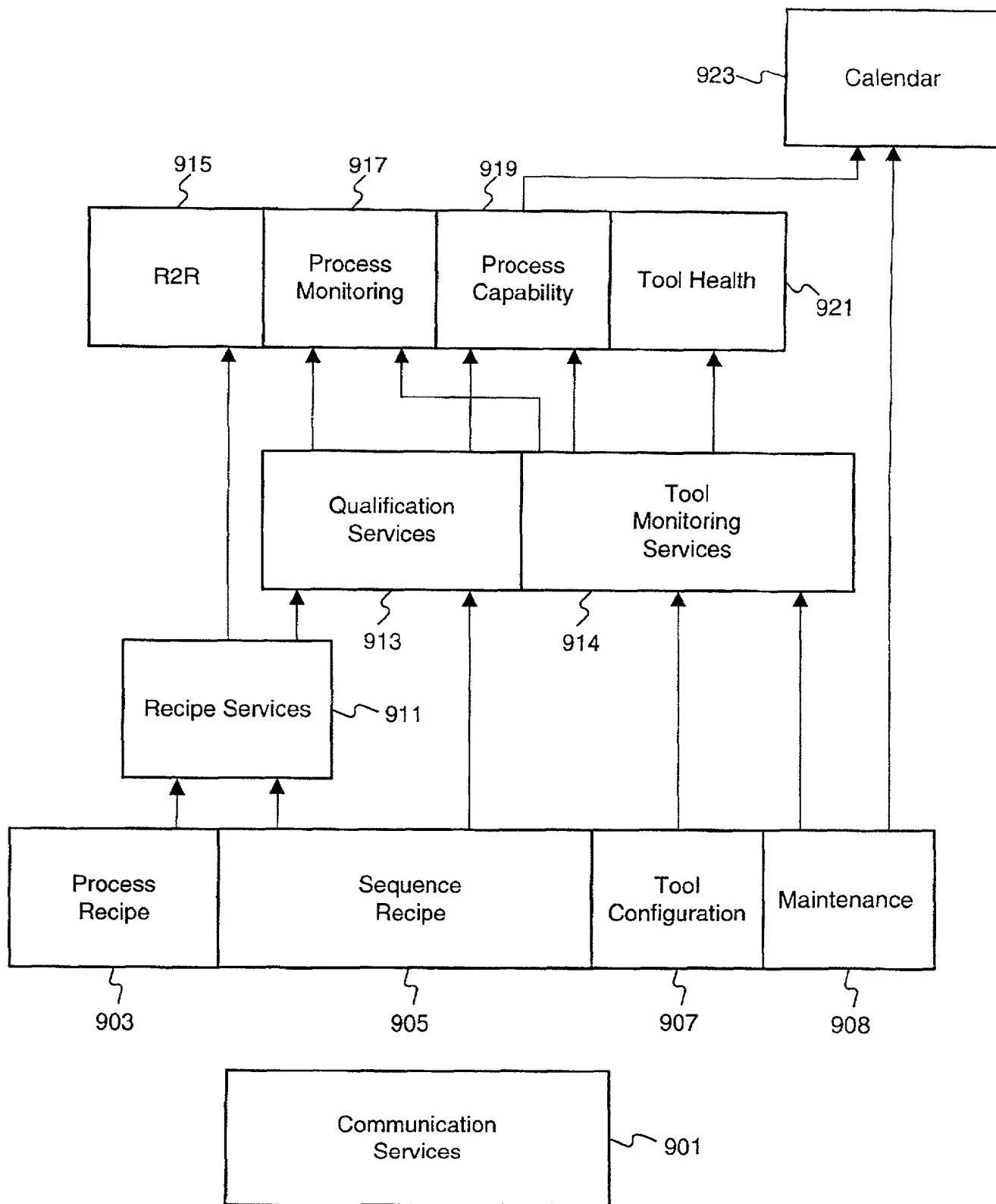


FIG. 9

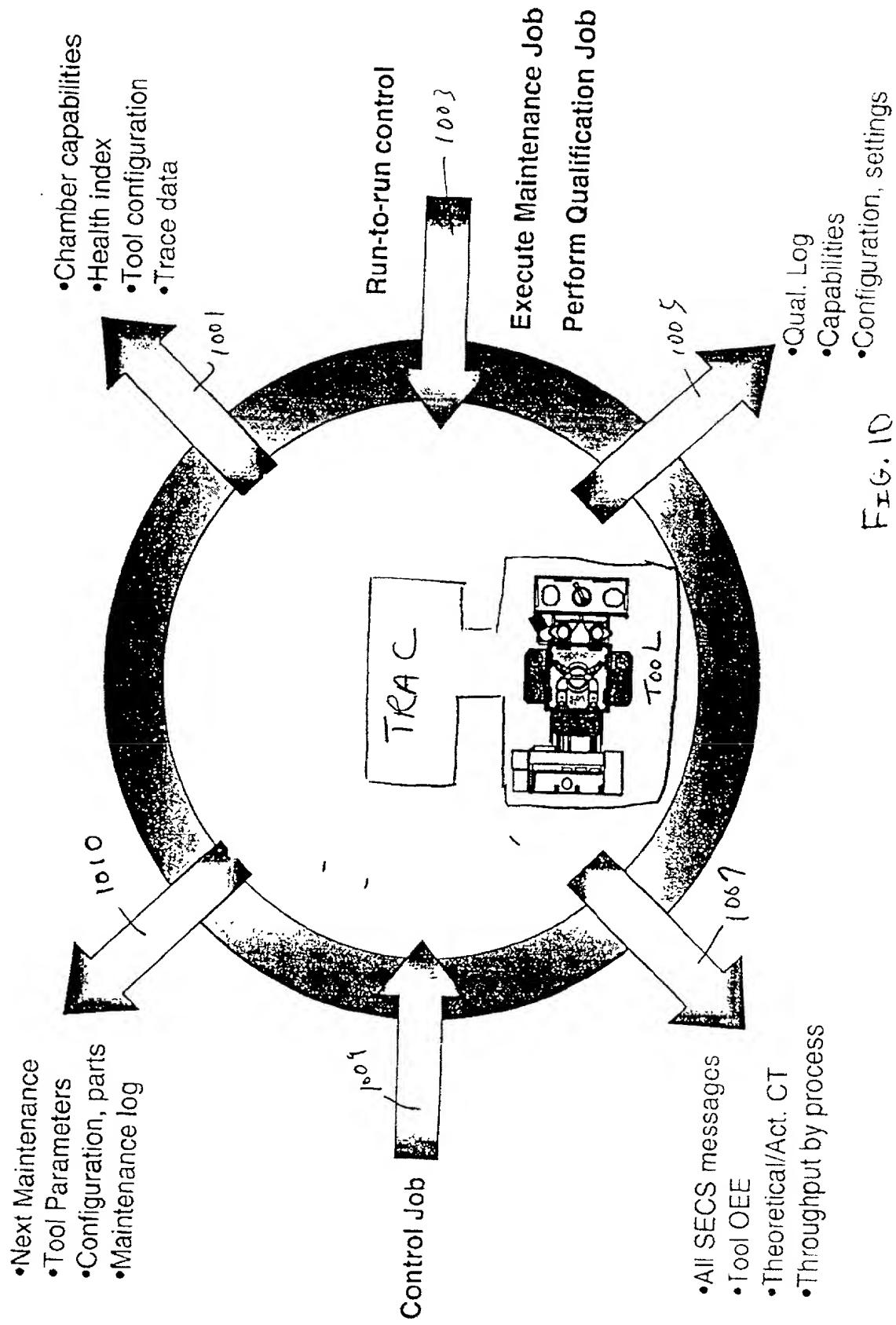
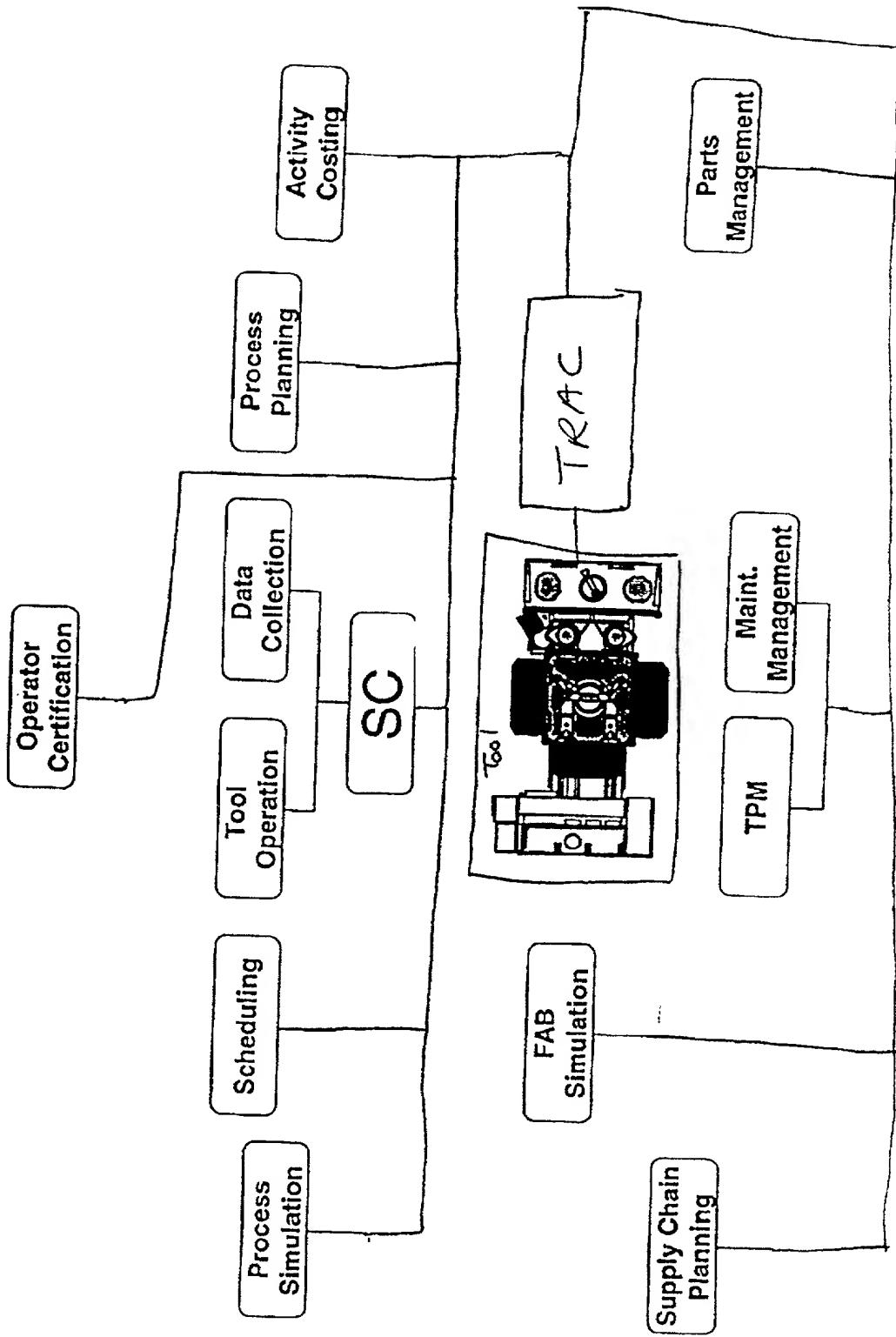


FIG. 10

Fig 11

CONTROLLER/SOFTWARE APPLICATIONS



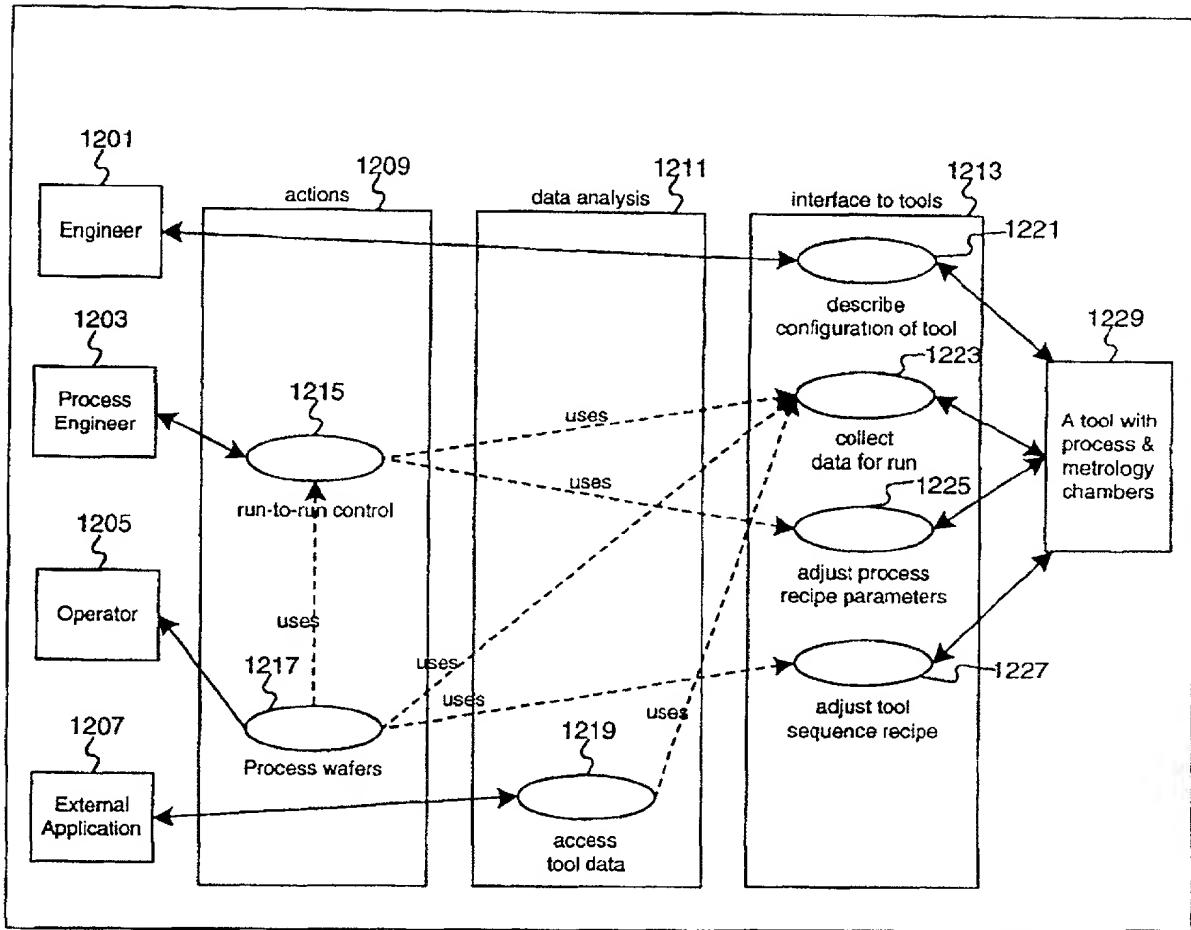


FIG. 12

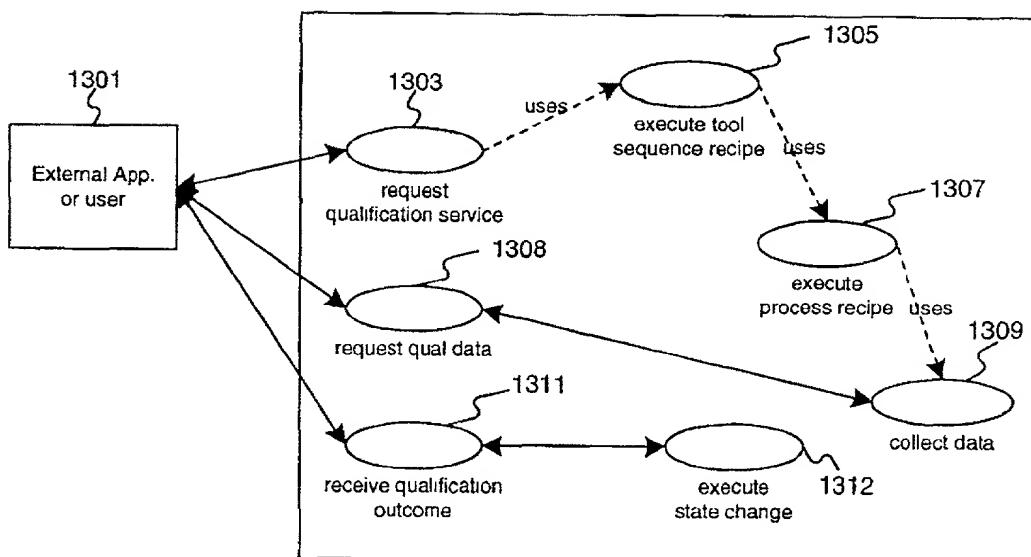


FIG. 13

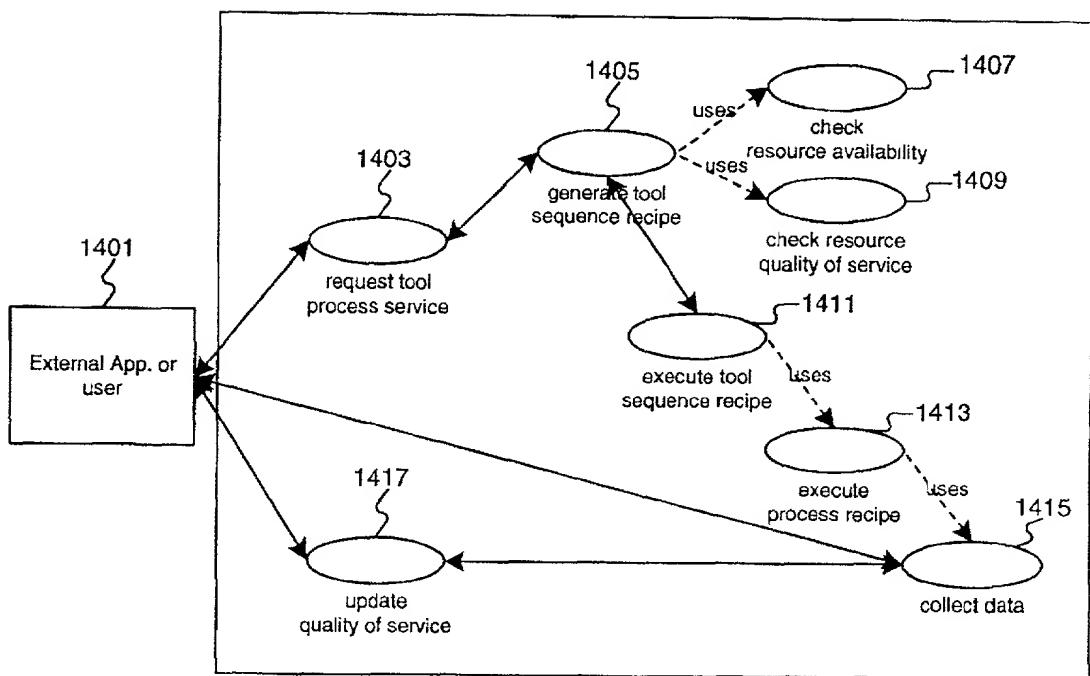


FIG. 14

R2R Control Scenario

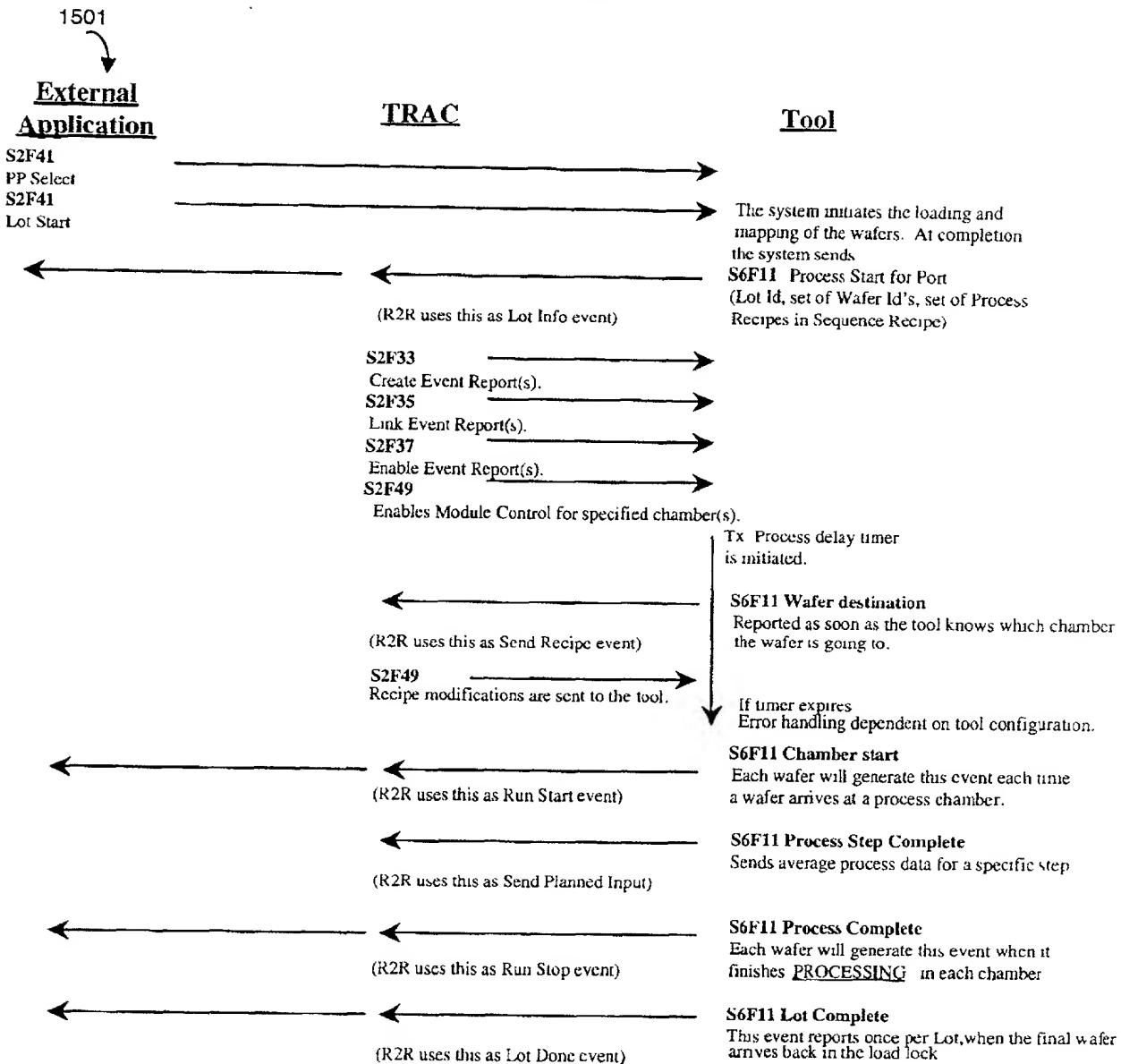


FIG. 15

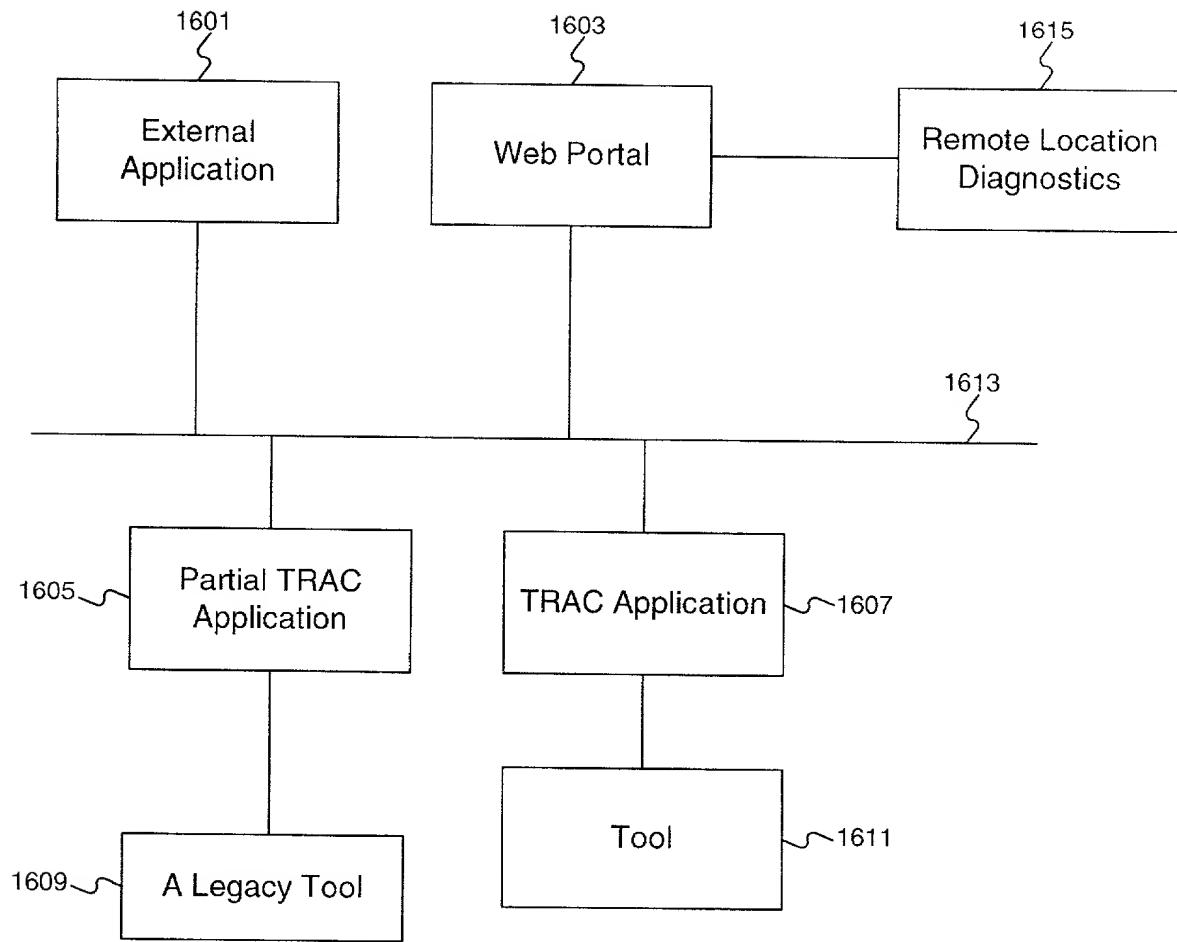


FIG. 16(a)

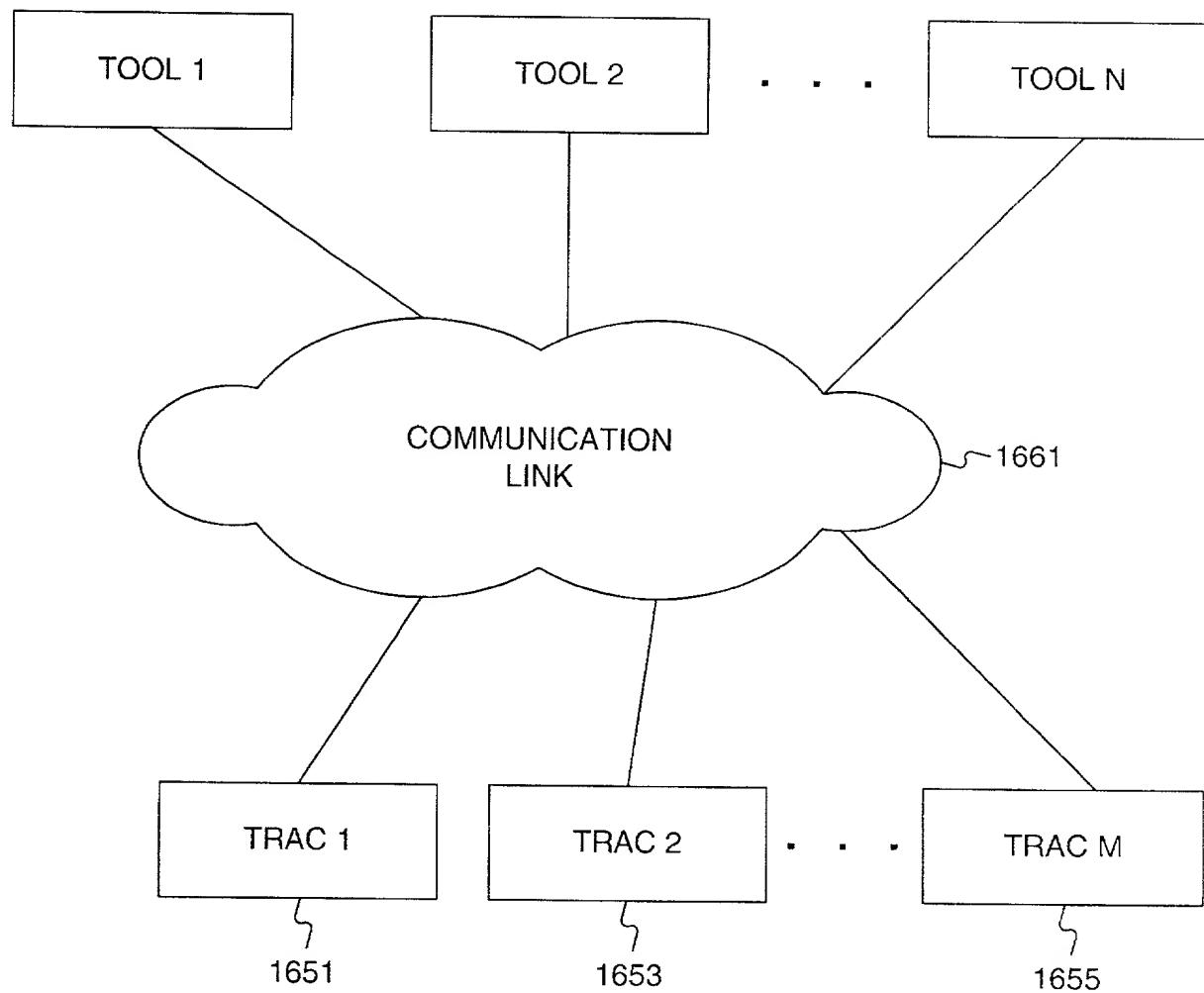


FIG. 16(b)

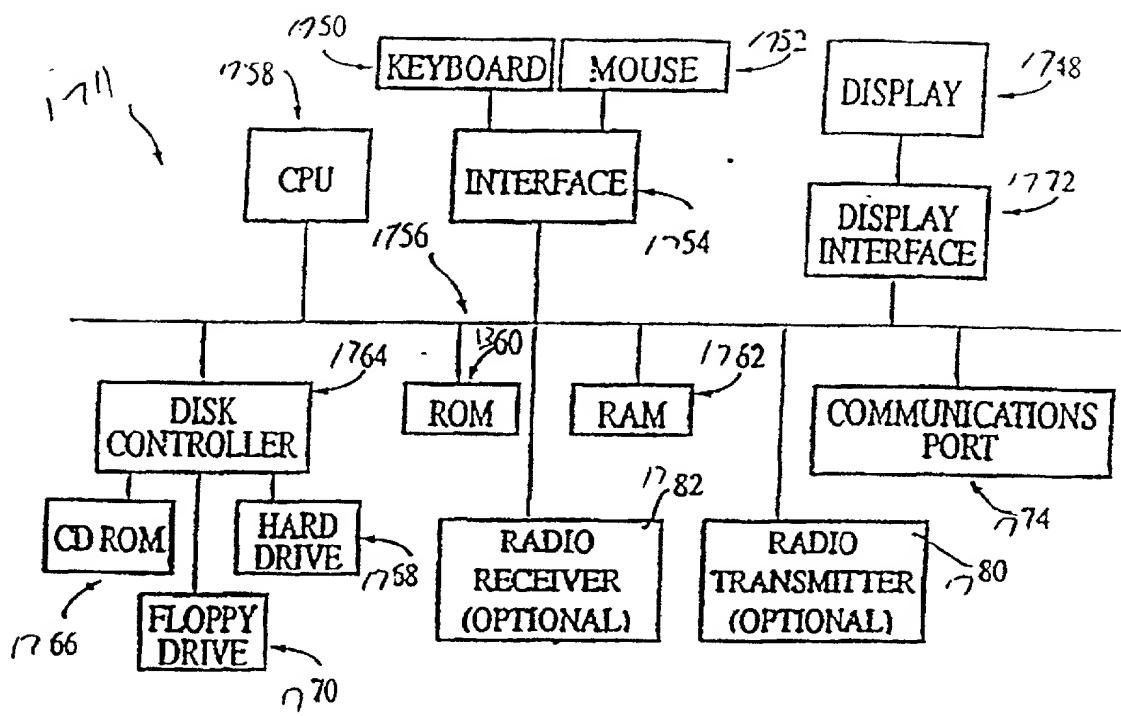


FIG. 17

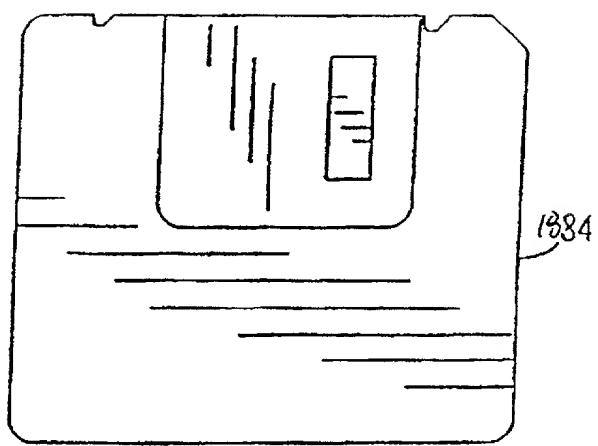


FIG. 18